

## Amendments to the Claims

The following listing of claims replaces all prior listings, and all prior versions, of claims in the application.

### Listing of Claims

1. (currently amended) Shoulder joint prosthesis, comprising an at least two-piece humeral head prosthesis, composed of a calotte or joint head , and an attachment body, including an attachment part for the mounting attachment of the calotte, as well as a mounting segment to effect an at least cement-free anchoring of the attachment body within the bone, wherein the attachment body is of an at least two-part design, including as said attachment part a disk-like positioning body having a medial hole and an at least nearly circular projecting collar about the medial hole, and as said mounting segment an anchoring body having a hollow screw provided in order to affix the positioning body to the bone through the projecting collar and medial hole.

2. -3. (cancelled)

4. (previously presented) Prosthesis according to Claim 1, wherein the calotte or joint head has at least one nearly spherical surface corresponding to a spherical section with an opening angle of < 180°.

5. (currently amended) Prosthesis according to Claim 1, wherein the disk-like positioning body has an at least nearly circular projecting collar with of the disk-like positioning body has a terminally located, conical support edge, and wherein a beveled retaining flange is formed on the hollow screw of the anchoring body terminally projecting outward to match the support edge so as to rest on or abut the support edge inside the collar .

6. (previously presented) Prosthesis according to Claim 5, wherein the joint head has an at least nearly hollow-cylinder-shaped receiver on the side

opposite the nearly spherical surface, provided to mount the joint head on the attachment body.

7. (previously presented) Prosthesis according to Claim 6, wherein the wall of the hollow-cylinder-shaped receiver and the external surface of the collar of the disc-like positioning body is of a slightly conical or beveled design so as to provide a form-locking and positionally correct mounting of the joint head over the collar.

8. (currently amended) Method of fitting a shoulder joint prosthesis comprising an at least two-piece humeral head prosthesis, composed of a calotte or joint head, and an attachment body including an attachment part for the mounting attachment of the calotte, as well as a mounting segment to effect an at least cement-free anchoring of the attachment body within the bone, said method comprising fitting the attachment body of the prosthesis on a previously prepared bone, and then fitting the joint head or calotte of the prosthesis on the attachment body, wherein said step of fitting the attachment body on the previously prepared bone includes attaching a disk-like positioning body having a medial hole and an at least nearly circular projecting collar about the medial hole as said attachment part at a predetermined position to the prepared bone, wherein a provisional positionally-correct fixation is provided by hooks or projections protruding from the positioning body, after which the positioning body is anchored or fixed to the bone by a hollow screw of said mounting segment which is inserted through ~~the~~ the projecting collar and the medial hole in the positioning body.

9. (cancelled)

10. (previously presented) Method according to Claim 8, wherein the joint head is fitted on the fitted attachment body which has a slightly conically-shaped collar protruding from the bone by an approach in which a hollow-cylinder-shaped receiver on the inside of the joint head, which receiver also has a slightly conically-shaped wall, is mounted in a form-locking manner over

the collar; and that finally the joint head is definitively fastened or fixed by applying a force to its external surface.

11. (currently amended) Method according to Claim 8, wherein the ~~at least nearly circular projecting collar is slightly conically-shaped and the joint head is fitted on the fitted attachment body which has a~~ ~~with the~~ slightly conically-shaped collar protruding from the bone by an approach in which a hollow-cylinder-shaped receiver on the inside of the joint head, which receiver also has a slightly conically-shaped wall, is mounted in a form-locking manner over the collar; and that finally the joint head is definitively fastened or fixed by applying a force to its external surface.

12. (previously presented) Prosthesis according to Claim 1, wherein the calotte or joint head has at least one nearly spherical surface corresponding to a spherical section with an opening angle of < 180°.

13. -16. (cancelled)